

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2025**

(CBCSS - PG)

(Regular/Supplementary/Improvement)

**CC19PCSS1C04 - THE ART OF PROGRAMMING METHODOLOGY**

(Computer Science)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

**Part-A**Answer any ***four*** questions. Each question carries 2 weightage.

1. State and explain different types of errors in programming.
2. Write steps for executing a 'C' program
3. What is Token? What are the different types of token available in C language
4. Explain the different jumping statements in C.
5. Differentiate structure and union with suitable example.
6. What is file? Briefly discuss the the different file operations in C.
7. Explain Macro with example.

**(4×2 = 8 Weightage)****Part-B**Answer any ***four*** questions. Each question carries 3 weightage.

8. Define flowchart.Explain different flowchart symbols.
9. Briefly discuss the evaluation of expression in C with suitable example.
10. What is operator precedence and associativity in C?
11. List the differences between while loop and do-while loop.Explain with an example.
12. What are arrays? Write a program to sort a set of integers in ascending order.
13. Explain string operations with an example.
14. Explain the various storage classes used in C with example.

**(4 × 3 = 12 Weightage)**

### **Part-C**

Answer any ***two*** questions. Each question carries 5 weightage.

15. Write down the advantages and disadvantages of modular programming. Write down characteristic of algorithm with an example.
16. Discuss the different categories of function with example.
17. Give a description on pointers. Write a program to perform matrix addition and matrix multiplication using pointers.
18. Explain dynamic memory allocation? Explain different memory allocation functions.

**(2 × 5 = 10 Weightage)**

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